

AMENDED

## Claims

1. Method for automatically setting the gain of an interrogator receiver within a non-contacting identification system consisting of the interrogator and several transponders,

according to which method, within a receiver amplifier of the interrogator, a gain lowering is activated each time when an amplified input signal exceeds an attack threshold voltage level ( $V_{att}$ ), and a gain rising is activated after the gain lowering has ended,

characterized in

that the amplifier responds with the gain rising activated after the lapse of a waiting period which started when the instantaneous value of the amplified signal for the last time after the end of the gain lowering exceeded a waiting threshold voltage level ( $V_w$ ).

2. Method as recited in claim 1,

characterized in

that the rate of the gain rising is of the same order of magnitude as the rate of the gain lowering.

3. Method as recited in claim 1 or 2,

characterized in

that the length of the waiting period equals a double length of the longest time interval between the adjacent pulses in a transponder data wave packet.

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